



**1W OUTPUT AMPLIFIER OF PORTABLE
RADIOS IN CLASS**

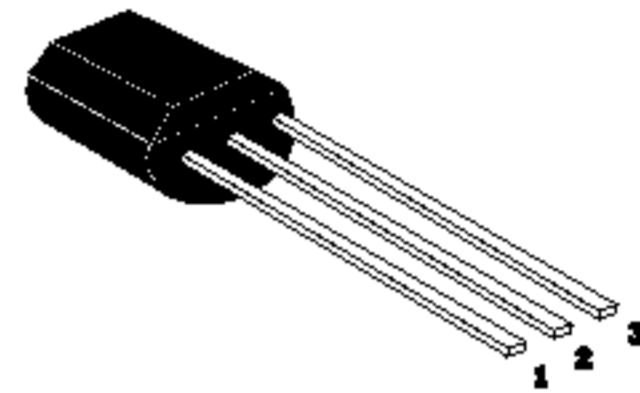
B PUSH-PULL OPERATION.

- * Complement to S9013
- * Collector Current :Ic=-500mA
- * High Total Power Dissipation: pC=625mW

ABSOLUTE MAXIMUM RATINGS at Tamb=25°C

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	Vcbo	-40	V
Collector-Emitter Voltage	Vceo	-20	V
Emitter-Base Voltage	Vebo	-5	V
Collector Current	Ic	-500	mA
Collector Dissipation	Pc	625	mW
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55~150	°C

Package: TO-92



PIN:	1	2	3
STYLE			
NO.1	E	B	C

ELECTRICAL CHARACTERISTICS at Tamb=25°C

Characteristic	Symbol	Min	Typ	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BVcbo	-40			V	Ic=-100uA Ie=0
Collector-Emitter Breakdown Voltage	BVceo	-20			V	Ic=-1mA Ib=0
Emitter-Base Breakdown Voltage	BVebo	-5			V	Ie=-100uA Ic=0
Collector Cutoff Current	Icbo			-100	nA	Vcb=-25V Ie=0
Emitter Cutoff Current	Iebo			-100	nA	Veb=-3v Ic=0
DC Current Gain	Hfe ₁	64	120	300		Vce=-1V Ic=-50mA
DC Current Gain	Hfe ₂	30				Vce=-1V Ic=-500mA
Collector-Emitter Saturation Voltage	Vce(sat)		-0.18	-0.6	V	Ic=-500mA Ib=-50mA
Base-Emitter Saturation Voltage	Vbe(sat)		-0.95	-1.2	V	Ic=-500mA Ib=-50mA
Base-Emitter On Voltage	Vbe(on)	-0.6	-0.67	-0.7	V	Vce=-1V Ic=-10mA

CLASSIFICATION HFE

Classification	D	F	G	H	I
Hfe ₁	64-96	96-135	112-166	144-202	202-300

2